

24577-cyb.ST25 SEQUENCE LISTING

<110> Maddon, Paul J.

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<140> 09/891,119

<141> 2001-06-25

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tgt g Cys G																447
ttg a Leu 1					130											495
Leu	1111	Leu	Giu	145			,		150					15:	agg Arg	543
			TOC	,											g tct I Ser	591
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205					211	,									g gac 1 Asp 220	735
Phe	Ser	Pne	e Pr	22	5	a			23	0				23		783
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24577-cyb.ST25

acc Thr	ttt Phe	gac Asp 255	ctg Leu	aag Lys	aac Asn		gaa Glu 260	gtg Val	tct Ser	gta Val	aaa Lys	cgg Arg 265	gtt Val	acc Thr	cag Gln	879
gac Asp	cct Pro 270		ctc Leu	cag Gln	atg Met	ggc Gly 275	aag Lys	aag Lys	ctc Leu	ccg Pro	ctc Leu 280	cac His	ctc Leu	acc Thr	ctg Leu	927
ccc Pro 285		gcc Ala	ttg Leu	cct Pro	cag Gln 290	tat Tyr	gct Ala	ggc Gly	tct Ser	gga Gly 295	aac Asn	ctc Leu	acc Thr	ctg Leu	gcc Ala 300	975
	gaa Glu	gcg Ala	aaa Lys	aca Thr 305	gga Gly	aag Lys	ttg Leu	cat His	cag Gln 310	gaa Glu	gtg Val	aac Asn	ctg Leu	gtg Val 315	gtg Val	1023
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ccc	acc Thr	tco Ser 335	Pro	aag Lys	ctg Leu	atg Met	ctg Leu 340		ttg Leu	aaa Lys	ctg Leu	gag Glu 345	aac Asn	aag Lys	gag Glu	1119
gca Ala	aag Lys 350	gtg Va	tco	aag Lys	g cgg s Arg	gag Glu 355	ı Lys	gcg Ala	gtg Val	tg <u>c</u> Trp	gto val 360	ctg Leu)	aac Asn	cct Pro	gag Glu	1167
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Ile Gln Phe His Trp Lys Asn Ser Asn Gln Ile Lys Ile Leu Gly Asn 50 60 Gln Gly Ser Ser Leu Thr Lys Gly Pro Ser Lys Leu Asn Asp Arg Ala 65 $70\,$ ASP SET ATG ATG SET LEU TTP ASP GIN GIY ASN PHE PTO LEU Ile Ile 95 90 Arg Asn Leu Lys Ile Glu Asp Ser Asp Thr Tyr Ile Cys Glu Val Glu 100 110 ASP Gln Lys Glu Glu Val Gln Leu Leu val Phe Gly Leu Thr Ala ASn 115 125 Ser Asp Thr His Leu Leu Gln Gly Gln Ser Leu Thr Leu Thr Leu Glu 130 135 140 Ser Pro Pro Gly Ser Ser Pro Ser Val Gln Cys Arg Ser Pro Arg Gly 145 150 160 Lys Asn Ile Gln Gly Gly Lys Thr Leu Ser Val Ser Gln Leu Glu Leu 175 175Gln Asp Ser Gly Thr Trp Thr Cys Thr Val Leu Gln Asn Gln Lys Lys $180 \ 190 \$ val Glu Phe Lys Ile Asp Ile Val Val Leu Ala Phe Gln Lys Ala Ser 195 200 Ser Ile Val Tyr Lys Lys Glu Gly Glu Gln Val Asp Phe Ser Phe Pro 210 220 Leu Ala Phe Thr Val Glu Lys Leu Thr Gly Ser Gly Glu Leu Trp Trp 225 230 Gln Ala Glu Arg Ala Ser Ser Ser Lys Ser Trp Ile Thr Phe Asp Leu 245 255 Lys Asn Lys Glu Val Ser Val Lys Arg Val Thr Gln Asp Pro Lys Leu 260 265 Gln Met Gly Lys Lys Leu Pro Leu His Leu Thr Leu Pro Gln Ala Leu 275 280 285

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Ile Gln Phe His Trp Lys Asn Ser Asn Gln Ile Lys Ile Leu Gly Asn 50 60

Gln Gly Ser Phe Leu Thr Lys Gly Pro Ser Lys Leu Asn Asp Arg Ala 80 75

ASP SER ARG ARG SER LEU TRP ASP Gln Gly ASN Phe Pro LEU Ile Ile 95 90

Lys Asn Leu Lys Ile Glu Asp Ser Asp Thr Tyr Ile Cys Glu Val Glu $100 \ 100$

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Ser Asp Thr His Leu Leu Gln Gly Gln Ser Leu Thr Leu Thr Leu Glu 130 140

Ser Pro Pro Gly Ser Ser Pro Ser Val Gln Cys Arg Ser Pro Arg Gly 145 150 160

Lys Asn Ile Gln Gly Gly Lys Thr Leu Ser Val Ser Gln Leu Glu Leu 165 170 175

Gln Asp Ser Gly Thr Trp Thr Cys Thr Val Leu Gln Asn Gln Lys Lys 185 190

24577-cyb.ST25 Val Glu Phe Lys Ile Asp Ile Val Val Leu Ala Phe Gln Lys Ala Ser 195 200 205 Ser Ile Val Tyr Lys Lys Glu Gly Glu Gln Val Glu Phe Ser Phe Pro 210 220 Leu Ala Phe Thr Val Glu Lys Leu Thr Gly Ser Gly Glu Leu Trp Trp 225 230 235 Gln Ala Glu Arg Ala Ser Ser Ser Lys Ser Trp Ile Thr Phe Asp Leu 245 250 Lys Asn Lys Glu Val Ser Val Lys Arg Val Thr Gln Asp Pro Lys Leu 260 265 270 Gln Met Gly Lys Lys Leu Pro Leu His Leu Thr Leu Pro Gln Ala Leu 285 280 Thr Gly Lys Leu His Gln Glu Val Asn Leu Val Val Met Arg Ala Thr 305 310 320 Gln Leu Gln Lys Asn Leu Thr Cys Glu Val Trp Gly Pro Thr Ser Pro 335 Lys Leu Met Leu Ser Leu Lys Leu Glu Asn Lys Glu Ala Lys Val Ser 340 350 Lys Arg Glu Lys Ala Val Trp Val Leu Asn Pro Glu Ala Gly Met Trp 365 365 Gln Cys Leu Leu Ser Asp Ser Gly Gln Val Leu Leu Glu Ser Asn Ile 370 380 Lys Val Leu Pro Thr Trp Ser Thr Pro Val Gln Pro Met Ala Leu Ile 385 390 400 val Leu Gly Gly val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly Ile 415 416 Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln Ala Glu Arg Met 420 430 Ser Gln Ile Lys Arg Leu Leu Ser Glu Lys Lys Thr Cys Gln Cys Pro 445 445 His Arg Phe Gln Lys Thr Cys Ser Pro 450 455

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Leu Leu Tyr Leu Ser Gln Asn Lys Pro Lys Ala Ala Glu Gly Leu Asp 50 60

Thr Gln arg Phe Ser Gly Lys arg Leu Gly Asp Thr Phe Val Leu Thr $65 \\ 70 \\ 75$

Leu Ser Asp Phe Arg Arg Glu Asn Glu Gly Tyr Tyr Phe Cys Ser Ala page 11

Leu Ser Asn Ser Ile Met 100

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Phe Ser Ala Lys Met Pro Asn Ala Ser Phe Ser Thr Leu Lys Ile Gln 65 70

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Ser Thr Cys Ser Ala Asn

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 $$24577{\rm -}{\rm cyb.}$ST25$$ Asp Val Thr Leu Asp Cys Val Tyr Glu Thr Arg Asp Thr Thr Tyr Tyr \$20\$

arg Arg Asn Ser Phe Asp Glu Gln Asn Glu Ile Ser Gly Arg Tyr Ser $^{50}_{50}$

Trp Asn Phe Gln Lys Ser Thr Ser Ser Phe Asn Phe Thr Ile Thr Ala $80 \\ 65 \\ 70$

Ser Gln Val Val Asp Ser Ala Val Tyr Phe Cys Ala Leu Asp Ser Ser 90 90

Ala Ser Lys

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Figure 6

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G S	35	glu Geo	35	3 Q	
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Figure 6A

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